

## Basic Information

<b>Product Name</b>	Anti-RAB7A Antibody (Clone#GHA-18)	
<b>Gene Name</b>	RAB7A	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Monoclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC, ICC/IF, FCM	
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthesized peptide derived from human RAB7	
<b>Concentration</b>	500ug/ml	
<b>Purification</b>	Affinity-chromatography	
<b>Observed MW</b>	23 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	Flow Cytometry (FCM):	1:20

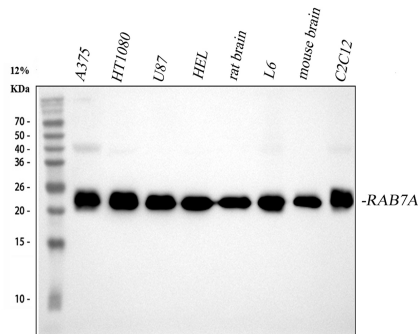
## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

RAB family members are small, RAS-related GTP-binding proteins that are important regulators of vesicular transport. Each RAB protein targets multiple proteins that act in exocytic / endocytic pathways. This gene encodes a RAB family member that regulates vesicle traffic in the late endosomes and also from late endosomes to lysosomes. This encoded protein is also involved in the cellular vacuolation of the VacA cytotoxin of *Helicobacter pylori*. Mutations at highly conserved amino acid residues in this gene have caused some forms of Charcot-Marie-Tooth (CMT) type 2 neuropathies.

## Selected Validation Data



Western blot analysis of anti-RAB7A antibody (BM4651). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human A375 whole cell lysates,

Lane 2: human HT1080 whole cell lysates,

Lane 3: human U87 whole cell lysates,

Lane 4: human HEL whole cell lysates,

Lane 5: rat brain tissue lysates,

Lane 6: rat L6 whole cell lysates,

Lane 7: mouse brain tissue lysates,

Lane 8: mouse C2C12 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-RAB7A antigen affinity purified monoclonal antibody (BM4651) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for RAB7A at approximately 23 kDa. The expected band size for RAB7A is at 23 kDa.